



Sequence Listing

<110> Hirokazu Matsumoto  
Jiro Noguchi  
Mioko Harada  
Masaaki Mori

<120> Body weight gain inhibitor

<130> 61536 (46342)

<140> 10/500,175

<141> 2004-06-25

<150> PCT/JP01/13781

<151> 2002-12-27

<150> JP2001-403260

<151> 2001-12-28

<150> JP2002-93096

<151> 2002-03-28

<160> 150

<210> 1

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 1

atcgattaca atgcaggccg ctgggcaccc ag 32

<210> 2

<211> 32

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 2

actagtgcc ttcagcacccg caatatgctg cg 32

<210> 3

<211> 1023

<212> DNA

<213> Homo sapiens

<400> 3

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ctccgagcca	ctgccgttcc	tctatgtgct	cctgcccgcc	gtgtactccg	ggatctgtgc	180
tgtggggctg	actggcaaca	cggccgtcat	ccttgtaatc	ctaagggcgc	ccaagatgaa	240
gacggtgacc	aacgtgttca	tctgaacct	ggccgtcgcc	gacgggctct	tcacgctggt	300

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actgcccgtc aacatcgcgg agcacctgct gcagtactgg cccttcgggg agctgctctg 360
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gatgagcgtg gaccgatacc tgggtggtgct ggccaccgtg aggtcccgcc acatgccctg 480
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agt 1023

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&lt;210&gt; 4

&lt;211&gt; 333

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 4

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Ser Leu Pro Thr Met Gly Ala Asn Val Ser Gln Asp Asn Gly Thr Gly
20          25          30
His Asn Ala Thr Phe Ser Glu Pro Leu Pro Phe Leu Tyr Val Leu Leu
35          40          45
Pro Ala Val Tyr Ser Gly Ile Cys Ala Val Gly Leu Thr Gly Asn Thr
50          55          60
Ala Val Ile Leu Val Ile Leu Arg Ala Pro Lys Met Lys Thr Val Thr
65          70          75          80
Asn Val Phe Ile Leu Asn Leu Ala Val Ala Asp Gly Leu Phe Thr Leu
85          90          95
Val Leu Pro Val Asn Ile Ala Glu His Leu Leu Gln Tyr Trp Pro Phe
100          105          110
Gly Glu Leu Leu Cys Lys Leu Val Leu Ala Val Asp His Tyr Asn Ile
115          120          125
Phe Ser Ser Ile Tyr Phe Leu Ala Val Met Ser Val Asp Arg Tyr Leu
130          135          140
Val Val Leu Ala Thr Val Arg Ser Arg His Met Pro Trp Arg Thr Tyr
145          150          155          160
Arg Gly Ala Lys Val Ala Ser Leu Cys Val Trp Leu Gly Val Thr Val
165          170          175
Leu Val Leu Pro Phe Phe Ser Phe Ala Gly Val Tyr Ser Asn Glu Leu
180          185          190
Gln Val Pro Ser Cys Gly Leu Ser Phe Pro Trp Pro Glu Gln Val Trp
195          200          205
Phe Lys Ala Ser Arg Val Tyr Thr Leu Val Leu Gly Phe Val Leu Pro
210          215          220
Val Cys Thr Ile Cys Val Leu Tyr Thr Asp Leu Leu Arg Arg Leu Arg
225          230          235          240
Ala Val Arg Leu Arg Ser Gly Ala Lys Ala Leu Gly Lys Ala Arg Arg
245          250          255
Lys Val Thr Val Leu Val Leu Val Val Leu Ala Val Cys Leu Leu Cys
260          265          270
Trp Thr Pro Phe His Leu Ala Ser Val Val Ala Leu Thr Thr Asp Leu
275          280          285
Pro Gln Thr Pro Leu Val Ile Ser Met Ser Tyr Val Ile Thr Ser Leu
290          295          300

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Ser Tyr Ala Asn Ser Cys Leu Asn Pro Phe Leu Tyr Ala Phe Leu Asp  
 305 310 315 320  
 Asp Asn Phe Arg Lys Asn Phe Arg Ser Ile Leu Arg Cys  
 325 330

<210> 5  
 <211> 687  
 <212> RNA  
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 <223> Riboprobe

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 ucaggcacga guuggcgua cugaggcugg ugaugacgua ggacauacug augaccagug 180  
 gggucugggg cagguccgug gucagggcca cgacagaggc cagguggaag ggcguccagc 240  
 agaggaggca cacggccagc acgacgagga ccaggacggu caccuuccgc cuggccuugc 300  
 cuagagccuu ggcuccagag cggagccgca cggcccgcag ccugcgcagg aggucugugu 360  
 agagcacaca gauggugcac acgggcagca cgaagcccag gaccaacgug uagacacggc 420  
 uggccuugaa ccagaccugc ucgggccacg ggaagcucag cccacagcuu gggaccugca 480  
 gcucguugcu guagacgcca gcgaaagaga agaagggcag aaccaggacc gugacgcca 540  
 gccagacaca caggcuggcg accuucgccc cccgguaggu gcgccagggc auguggcggg 600  
 accucacggu ggccagcacc accagguauc gguccacgcu caucacggcu aggaaguaga 660  
 ugcuggagaa gauguuguag uggucga 687

<210> 6  
 <211> 17  
 <212> PRT  
 <213> Sus scrofa

<400> 6  
 Trp Tyr Lys His Thr Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala  
 1 5 10 15  
 Ala

<210> 7  
 <211> 438  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 408  
 <223> n is a, c, g, or t

<400> 7  
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 gccggctcgc gggagccccc cgctcccctg ggcgccacgc cagggcgctc gcgtcgacgg 180  
 ccgcccggcg gggcgggcca cgaaccggct cggctggggt tgggcgcgca gtggagttag 240  
 gacgccacag taccggagcg caggaggctg gaggcgagcc gtgggtcccc tgcaggccca 300  
 gctataaccg ctcggtggcc ccgcctcgtt ccgcccctc agtaccgctg ggctccccag 360  
 atggggggag ggacggaggg aggagagggg accctggcag ctggcggnng acgtgggtac 420  
 ttgagcacct cactgagt 438

<210> 8

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<211> 264  
 <212> DNA  
 <213> Homo sapiens

<400> 8  
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 ggggactcgc cacgtgcttg taccacgcgc cggagggcag cggcagcagg agcagaagca 120  
 gcagcagtgc cagccgcggc cggctcgcgg gagccccccg ctcccctggg cgccacgcca 180  
 gggcgctcgc gtcgacggcc gcccggcggg gcggggccacg aaccggctcg gctgggtttg 240  
 ggcgcgcagt ggagttggga cgcc 264

<210> 9  
 <211> 424  
 <212> DNA  
 <213> Homo sapiens

<400> 9  
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 ggggactcgc cacgtgcttg taccacgcgc cggagggcag cggcagcagg agcagaagca 120  
 gcagcagtgc cagccgcggc cggctcgcgg gagccccccg ctcccctggg cgccacgcca 180  
 gggcgctcgc gtcgacggcc gcccggcggg gcggggccacg aaccggctcg gctgggtttg 240  
 ggcgcgcagt ggagttggga cgcccaggta ccggagcgca ggaggctgga ggcgagccgt 300  
 ggggtcccctg caggcccagc tataaccgct cgggtggcccc gcctcgttcc gccccctcag 360  
 taccgctggg ctcccagat ggggggaggg acggagggag gagagggaac cctggcagct 420  
 ggcg 424

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 <212> DNA  
 <213> Homo sapiens

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 tcccctgggc gccacgcagg gctacagcgt cgacggccgc ccgcggggcc atcgcaaccg 180  
 gctcggctgg gtttgggcgc gcagtggagt tgggacgccc aggtaccgga gcgcaggagg 240  
 ctggaggcga gccgtgggtc ccctgcaggc ccagctataa ccgctcggtg gccccgcctc 300  
 gttccgcccc ctcaagtacc ctgggctccc cagaatgggg gagggacgga gggaggagag 360  
 ggaaccctgg cagct 375

<210> 11  
 <211> 260  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> 2, 61, 147, 189, 213, 237, 249  
 <223> n is a, c, g, or t

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 cccctgctac gcttactgct gcttctnctc ttgctacctc tgcccgccag cgcttggtac 180  
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 ctgcgccgnt cgtcctacct 260

<210> 12

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<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Primer

<400> 12  
aactccactg cgcgcccaaa ccca 24

<210> 13  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Primer

<400> 13  
tctccacag ctctgaacc cacg 24

<210> 14  
<211> 375  
<212> DNA  
<213> Homo sapiens

<400> 14  
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cggctggcac tgctgctgct tctgctcctg ctgccgtgc cctccggcgc gtggtacaag 180  
cacgtggcga gtccccgcta ccacacggtg ggccgcgccg ctggcctgct catggggctg 240  
cgtcgctcac cctatctgtg gcgccgcgcg ctgcgcgcgg ccgccgggccc cctggccagg 300  
gacacccctct ccccggaacc cgcagcccgc gaggctcctc tcctgctgcc ctcgtggggtt 360  
caggagctgt gggag 375

<210> 15  
<211> 125  
<212> PRT  
<213> Homo sapiens

<400> 15  
Asn Ser Thr Ala Arg Pro Asn Pro Ala Glu Pro Val Arg Gly Pro Pro  
1 5 10 15  
Arg Arg Ala Ala Val Asp Ala Ser Ala Leu Ala Trp Arg Pro Gly Glu  
20 25 30  
Arg Gly Ala Pro Ala Ser Arg Pro Arg Leu Ala Leu Leu Leu Leu  
35 40 45  
Leu Leu Leu Pro Leu Pro Ser Gly Ala Trp Tyr Lys His Val Ala Ser  
50 55 60  
Pro Arg Tyr His Thr Val Gly Arg Ala Ala Gly Leu Leu Met Gly Leu  
65 70 75 80  
Arg Arg Ser Pro Tyr Leu Trp Arg Arg Ala Leu Arg Ala Ala Gly  
85 90 95  
Pro Leu Ala Arg Asp Thr Leu Ser Pro Glu Pro Ala Ala Arg Glu Ala  
100 105 110  
Pro Leu Leu Leu Pro Ser Trp Val Gln Glu Leu Trp Glu  
115 120 125

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<210> 16  
<211> 23  
<212> PRT  
<213> Homo sapiens

<400> 16  
Trp Tyr Lys His Val Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala  
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Ala Gly Leu Leu Met Gly Leu  
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<210> 17  
<211> 30  
<212> PRT  
<213> Homo sapiens

<400> 17  
Trp Tyr Lys His Val Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala  
1 5 10 15  
Ala Gly Leu Leu Met Gly Leu Arg Arg Ser Pro Tyr Leu Trp  
20 25 30

<210> 18  
<211> 69  
<212> DNA  
<213> Homo sapiens

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atggggctg 69

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<211> 90  
<212> DNA  
<213> Homo sapiens

<400> 19  
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<210> 20  
<211> 29  
<212> PRT  
<213> Homo sapiens

<400> 20  
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<210> 21  
<211> 28  
<212> PRT  
<213> Homo sapiens

<400> 21  
Trp Tyr Lys His Val Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala

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						Pro
						Tyr

<210> 22  
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 <213> Homo sapiens

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			20				25								

<210> 23  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 23															
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Ala	Gly	Leu	Leu	Met	Gly	Leu	Arg	Arg	Ser						
			20				25								

<210> 24  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 24															
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Ala	Gly	Leu	Leu	Met	Gly	Leu	Arg	Arg							
			20				25								

<210> 25  
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 <213> Homo sapiens

<400> 25															
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Ala	Gly	Leu	Leu	Met	Gly	Leu	Arg								
			20												

<210> 26  
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 <212> DNA  
 <213> Homo sapiens

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atggggctgc	gtcgcctcacc	ctatctg														87

<210> 27

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<211> 84
<212> DNA
<213> Homo sapiens

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atggggctgc gtcgctcacc ctat 84

<210> 28
<211> 81
<212> DNA
<213> Homo sapiens

<400> 28
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atggggctgc gtcgctcacc c 81

<210> 29
<211> 78
<212> DNA
<213> Homo sapiens

<400> 29
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atggggctgc gtcgctca 78

<210> 30
<211> 75
<212> DNA
<213> Homo sapiens

<400> 30
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atggggctgc gtcgc 75

<210> 31
<211> 72
<212> DNA
<213> Homo sapiens

<400> 31
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atggggctgc gt 72

<210> 32
<211> 999
<212> DNA
<213> Homo sapiens

<400> 32
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ctgccgttcc tctatgtgct cctgcccgcc gtgtactccg ggatctgtgc tgtggggctg 180
actgggaaca cggccgctcat ccttgtaatc ctaagggcgc ccaagatgaa gacggtgacc 240
aacgtgttca tcctgaacct ggccgtcgcc gacgggtctt tcacgctggg actgcccgtc 300
aacatcgccg agcacctgct gcagtactgg cccttcgggg agctgctctg caagctgggtg 360
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cggggggcca aggtcgccag cctgtgtgtc tggctgggag tcacggctct ggttctgccc 540
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&lt;210&gt; 33

&lt;211&gt; 24

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 33

tctccacag ctctgaacc cacg 24

&lt;210&gt; 34

&lt;211&gt; 24

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 34

acagataggg tgagcgacgc agcc 24

&lt;210&gt; 35

&lt;211&gt; 1102

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 35

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gggaccatca ccagagagga ggcgctggag gtctgcaagg ccttgtcctg cccctccagg 180
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cacggatggc ttggtgttgc caacatgagg cttctaaggc ttctgcgggg agatgggttg 300
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ctccctcatc agtgttccca gtaccactc cctggcactt ccactcctag agggaggagg 600
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<210> 36  
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<220>  
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<400> 36  
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<210> 37  
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 <212> DNA  
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<220>  
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<400> 37  
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<210> 38  
 <211> 609  
 <212> DNA  
 <213> Homo sapiens

<400> 38  
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 gcgctgccgc cgcccgccgg gccctggcc agggacaccc tctccccga acccgagcc 180  
 cgcgaggctc ctctcctgct gccctcgtgg gttcaggagc tgtgggagac gcgacgcagg 240  
 agtcccagg cagggatccc cgtccgtgcg ccccgagcc cgcgcgcccc agagcctgcg 300  
 ctggaaccgg agtccctgga cttcagcgga gctggccaga gacttcggag agacgtctcc 360  
 cgcccagcgg tggacccgc agcaaaccgc cttggcctgc cctgcctggc ccccgaccg 420  
 ttctgacagc gtccccgcc cgcccgctgg gcctccgcgc ctgacccagg aggagtggcc 480  
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 gaattctag 609

<210> 39  
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<220>  
 <223> Primer

<400> 39  
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<210> 40  
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<220>  
 <223> Primer

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<400> 40  
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<210> 41  
<211> 719  
<212> DNA  
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tcctgcgctc cggtagcctg gcgtcccaac tccactgcgc gcccaaacc agccgagccg 120  
gttcgtggcc cggcccgccg ggcggccgctc gacgcgagcg ccctggcgtg gcgcccaggg 180  
gagcgggggg ctcccgcgag ccggccgcgg ctggcactgc tgctgcttct gtcctgctg 240  
ccgctgccct ccggcgcgctg gtacaagcac gtggcgagtc cccgctacca cacggtgggc 300  
cgcgccgctg gcctgctcat ggggctgcgt cgctcaccct atctgtggcg ccgcgcgctg 360  
cgcgcgcccg ccgggccccct ggccagggac accctctccc ccgaaccgc agcccgcgag 420  
gtcctctctc tgctgcccctc gtgggttcag gagctgtggg agacgcgacg caggagctcc 480  
caggcagggg tccccgtccg tgcgccccgg agcccgcgcg ccccagagcc tgcgctggaa 540  
ccggagtccc tggacttcag cggagctggc cagagacttc ggagagacgt ctcccgccca 600  
gcggtggacc ccgcagcaaa ccgccttggc ctgccctgcc tggcccccg accgttctga 660  
cagcgtcccc cgcccgcccc tggcgctctc gcgcctgacc caggaggagt ggccgcgcg 719

<210> 42  
<211> 165  
<212> PRT  
<213> Homo sapiens

<400> 42  
Leu Ala Trp Arg Pro Gly Glu Arg Gly Ala Pro Ala Ser Arg Pro Arg  
1 5 10 15  
Leu Ala Leu Leu Leu Leu Leu Leu Leu Pro Leu Pro Ser Gly Ala  
20 25 30  
Trp Tyr Lys His Val Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala  
35 40 45  
Ala Gly Leu Leu Met Gly Leu Arg Arg Ser Pro Tyr Leu Trp Arg Arg  
50 55 60  
Ala Leu Arg Ala Ala Ala Gly Pro Leu Ala Arg Asp Thr Leu Ser Pro  
65 70 75 80  
Glu Pro Ala Ala Arg Glu Ala Pro Leu Leu Leu Pro Ser Trp Val Gln  
85 90 95  
Glu Leu Trp Glu Thr Arg Arg Arg Ser Ser Gln Ala Gly Ile Pro Val  
100 105 110  
Arg Ala Pro Arg Ser Pro Arg Ala Pro Glu Pro Ala Leu Glu Pro Glu  
115 120 125  
Ser Leu Asp Phe Ser Gly Ala Gly Gln Arg Leu Arg Arg Asp Val Ser  
130 135 140  
Arg Pro Ala Val Asp Pro Ala Ala Asn Arg Leu Gly Leu Pro Cys Leu  
145 150 155 160  
Ala Pro Gly Pro Phe  
165

<210> 43  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>

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<223> Primer

<400> 43

acagataggg tgagcgacgc agcc 24

<210> 44

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 44

tgagcgacgc agcccatga gcag 24

<210> 45

<211> 235

<212> DNA

<213> Sus scrofa

<400> 45

cgacacccct	gcgcccagac	cctccggagc	cagttcctgg	tccgccccgc	cgggagccgt	60
cagcatgaac	ccccgggcac	gcggcatggg	agcgcggggc	ccgggaccgg	gggccactgc	120
gaggcgccgg	ctgctggcat	tgctgttact	gctgctgctg	ctgccgctgc	ccgcccgtgc	180
ctggtacaag	cacacggcga	gtccccgcta	ccacacggtg	ggccgcgccg	cgggc	235

<210> 46

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 46

cagcggcagc agcagcagca gtaa 24

<210> 47

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 47

cagcagtaac agcaatgccca gcag 24

<210> 48

<211> 156

<212> DNA

<213> Sus scrofa

<400> 48

ctgtagcctc	ccgcgctgcg	gcttccccgac	acccctgcgc	ccagaccctc	cggagccagt	60
tcctggtccg	ccccgccggg	agccgtcagc	atgaaccccc	gggcacgcgg	catgggagcg	120
cggggcccgg	gaccgggggc	cactgcgagg	cgccgg			156

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<210> 49  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 49  
 cggctgctgg cattgctggt actg 24

<210> 50  
 <211> 23  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 50  
 cgcccgtgcc tgggtacaagc aca 23

<210> 51  
 <211> 588  
 <212> DNA  
 <213> Sus scrofa

<400> 51  
 cggcgagtcc ccgctaccac acggtggggc gcgcgcgcggg cctgctcatg gggctgcgcc 60  
 gctcgcccta catgtggcgc cgcgcgctgc gcccggcggc cgggcccctg gcctgggaca 120  
 ctttcggcca ggacgtgccc cctcggggac cctccgccag gaacgccctc tctccggggc 180  
 ccgcccctcg cgacgtcccg ctgcttcccc ccgggggtta gacactgtgg caggtgcgac 240  
 gcggaagctt ccgctccggg atcccggta gtgcgccccg cagcccgcgc gcccgggggt 300  
 ccgagccgca accggaattg ggcgcctctt cctggacctc ggcggagtag accagagcct 360  
 tcggagagtc ttcagctcag cgggtggtctg cgcagggaac cgccttcgcc agccccgcc 420  
 tcgccccagc gtcagagccg acctgatcgc ggccccggcg gcgcggcccc gcgcctggcc 480  
 cccgcggagt ctcttcgcgc ccccaggccg gccgtctggt caataaaacc cgcctagtgc 540  
 ctgcgaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaa 588

<210> 52  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 52  
 ttcccagacac ccctgcgccc agac 24

<210> 53  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

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<400> 53  
 gggctggcga aggcggttcc ctgc 24

<210> 54  
 <211> 565  
 <212> DNA  
 <213> Sus scrofa

<400> 54  
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 gcggcatggg agcgcggggc ccgggaccgg gggccactgc gaggcgccgg ctgctggcat 120  
 tgctgttact gctgctgctg ctgccgctgc ccgcccgtgc ctggtacaag cacacggcga 180  
 gtccccgcta ccacacggtg ggccgcgcgc cgggcctgct catggggctg cgccgctcgc 240  
 cctacatgtg gcgcgcgcgc ctgcgcgccg cggccgggccc cctggcctgg gacactttcg 300  
 gccaggacgt gccccctcgg ggaccctccg ccaggaacgc cctctctccg gggcccggccc 360  
 ctgcgcagcgc tccgctgctt cccccggggg ttcagacact gtggcagggtg cgacgcggaa 420  
 gcttccgctc cgggatcccc gtcagtgcgc cccgcagccc gcgcgcccg gggtccgagc 480  
 cgcaaccgga attgggcgcc tcttcctgga cctcggcgga gtagaccaga gccttcggag 540  
 agtcttcage tcagcgggtg tctgc 565

<210> 55  
 <211> 159  
 <212> PRT  
 <213> Sus scrofa

<400> 55  
 Met Asn Pro Arg Ala Arg Gly Met Gly Ala Arg Gly Pro Gly Pro Gly  
 1 5 10 15  
 Ala Thr Ala Arg Arg Arg Leu Leu Ala Leu Leu Leu Leu Leu Leu Leu  
 20 25 30  
 Leu Pro Leu Pro Ala Arg Ala Trp Tyr Lys His Thr Ala Ser Pro Arg  
 35 40 45  
 Tyr His Thr Val Gly Arg Ala Gly Leu Leu Met Gly Leu Arg Arg  
 50 55 60  
 Ser Pro Tyr Met Trp Arg Arg Ala Leu Arg Pro Ala Ala Gly Pro Leu  
 65 70 75 80  
 Ala Trp Asp Thr Phe Gly Gln Asp Val Pro Pro Arg Gly Pro Ser Ala  
 85 90 95  
 Arg Asn Ala Leu Ser Pro Gly Pro Ala Pro Arg Asp Ala Pro Leu Leu  
 100 105 110  
 Pro Pro Gly Val Gln Thr Leu Trp Gln Val Arg Arg Gly Ser Phe Arg  
 115 120 125  
 Ser Gly Ile Pro Val Ser Ala Pro Arg Ser Pro Arg Ala Arg Gly Ser  
 130 135 140  
 Glu Pro Gln Pro Glu Leu Gly Ala Ser Ser Trp Thr Ser Ala Glu  
 145 150 155

<210> 56  
 <211> 23  
 <212> PRT  
 <213> Sus scrofa

<400> 56  
 Trp Tyr Lys His Thr Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala  
 1 5 10 15  
 Ala Gly Leu Leu Met Gly Leu  
 20

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<210> 57  
 <211> 30  
 <212> PRT  
 <213> Sus scrofa

<400> 57  
 Trp Tyr Lys His Thr Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala  
 1 5 10 15  
 Ala Gly Leu Leu Met Gly Leu Arg Arg Ser Pro Tyr Met Trp  
 20 25 30

<210> 58  
 <211> 69  
 <212> DNA  
 <213> Sus scrofa

<400> 58  
 tgggtacaagc acacggcgag tccccgctac cacacggtgg gccgcgccgc gggcctgctc 60  
 atggggctg 69

<210> 59  
 <211> 90  
 <212> DNA  
 <213> Sus scrofa

<400> 59  
 tgggtacaagc acacggcgag tccccgctac cacacggtgg gccgcgccgc gggcctgctc 60  
 atggggctgc gccgctcgcc ctacatgtgg 90

<210> 60  
 <211> 23  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 60  
 cgttctcggg gacataaacc ctg 23

<210> 61  
 <211> 23  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 61  
 atgagcagcc cggaggcacg acc 23

<210> 62  
 <211> 188  
 <212> DNA  
 <213> Rattus norvegicus

<400> 62

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```

ttctttgtcct aaccgcgcaa ggggccatgg acttgagcgc gctggcgctcg agcagagaag    60
tacggggggcc tggggccggg gctccgggtga accggcccct gctaccgcta ctgctgcttc    120
tgctcttgct acctctgccc gccagcgcct ggtacaagca cgtggcgagc cctcgctatc    180
acacagtg                                         188

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<210> 63

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 63

atgagcagcc cggaggcacg acc 23

/ <210> 64

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 64

actgtgtgat agcgagggct cgc 23

<210> 65

<211> 615

<212> DNA

<213> Rattus norvegicus

<400> 65

```

ctcagagctg tactaggcag gaagagggac ggccctcagg gaaggggtggc cctatgctta    60
aaactttcct gtctcctctc cataagtgtc ccacttgtag caactcctac caagggggca    120
tcctttttgcc cctggcagcc catccttgta ttctgagacc atgcatggta ccagaactcc    180
ctccctgaca gttcccttcc tgggggagag gaaagggtaa gcaaggagat cccccactaa    240
agcttcaagc gcagtccagc ttgcgatcta ctcatggga ggcttctagc taccggggtt    300
ccctcttctc cctccctctc catcctcctc tcccttgggc atgtgccgcg ggggagagcc    360
ggggcggggc cattgagaag ctgtagtcgc accaactgac tagtctcttc catcctccgg    420
agctccgacg ttctcgggga cataaaccct gttcttgctc taaccgcgca agggggccatg    480
gacttgagcg cgctggcgtc gagcagagaa gtacggggcc ctgggcccgg ggctccgggtg    540
aaccggcccc tgctaccgct actgctgctt ctgctcttgc tacctctgcc cgccagcgcc    600
tggtacaagc acgtg                                         615

```

<210> 66

<211> 23

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 66

cgttctcggg gacataaacc ctg 23

<210> 67

<211> 24



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<212> DNA  
<213> Artificial Sequence

<220>  
<223> Primer

<400> 67  
cgagccctcg ctatcacaca gtgg 24

<210> 68  
<211> 497  
<212> DNA  
<213> Rattus norvegicus

<400> 68  
gtcgtgcctc cgggctgctc atggggctgc gccgctcgcc ctacctgtgg cgccgtgcct 60  
tgggtggggc cgctggaccg ctcgtggggc tcccgggaca gatggcccgc agcgctctcc 120  
tgcttccttc ccccgggcag gagctgtggg aggtacgaag caggagtcca ccggcaggac 180  
ttcccgtgca tgcaaccggg agtctgcggg acctggaggg agccggccaa cctgagcagt 240  
cgctaagctt tcagtccctg acttcagcag agcccgtgc tagagccttc ggtgagacgc 300  
ttcgtgcccc gccatggttc ctgcagcaaa tcattcttgc cgatcctgtc aggctcgacg 360  
accgtctcaa gaaccgatgg cgccccgtg cttgacctaa gcaggagcac agcttgtagc 420  
tccagtcagg tctcgttgct tgggtcaataa aatcactctg attcccaaaa aaaaaaaaaa 480  
aaaaaaaaa aaaaaaa 497

<210> 69  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Primer

<400> 69  
ggggcggggc cattgagaag c 21

<210> 70  
<211> 21  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Primer

<400> 70  
tgaccagaca acgagacctg a 21

<210> 71  
<211> 684  
<212> DNA  
<213> Rattus norvegicus

<400> 71  
tgtagtcgca ccaactgact agtctcttcc atcctccgga gctccgacgt tctcggggac 60  
ataaaccttg ttcttgtcct aaccgcgcaa ggggccatgg acttgagcgc gctggcgtcg 120  
agcagagaag tacggggccc tggggccggg gctccggtga accggcccct gctaccgcta 180  
ctgctgcttc tgctcttgct acctctgccc gccagcgctt ggtacaagca cgtggcgagc 240  
cctcgctatc acacagtggg tcgtgcctcc gggctgctca tggggctgcg ccgctcgccc 300

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```

tacctgtggc gccgtgcctt ggggtggggcc gctggaccgc tcgtggggct cccgggacag 360
atggcccgc gcgtctctct gcttccttcc cccgggcagg agctgtggga ggtacgaagc 420
aggagttcac cggcaggact tcccgtgcat gcaaccgcga gtctgcggga cctggaggga 480
gccggccaac ctgagcagtc gctaagcttt cagtcctgga cttcagcaga gcccgtgct 540
agagccttcg gtgagacgct tcgtgcccag ccatgggtcc tgcagcaa atcatctttgcc 600
gatcctgtca ggctcgacga ccgtctcaag aaccgatggc gcccccgctc ttgacctaa 660
caggagcaca gctttagtagt ccag 684

```

&lt;210&gt; 72

&lt;211&gt; 185

&lt;212&gt; PRT

&lt;213&gt; Rattus norvegicus

&lt;400&gt; 72

```

Met Asp Leu Ser Ala Leu Ala Ser Ser Arg Glu Val Arg Gly Pro Gly
1      5      10      15
Pro Gly Ala Pro Val Asn Arg Pro Leu Leu Pro Leu Leu Leu Leu
20     25     30
Leu Leu Leu Pro Leu Pro Ala Ser Ala Trp Tyr Lys His Val Ala Ser
35     40     45
Pro Arg Tyr His Thr Val Gly Arg Ala Ser Gly Leu Leu Met Gly Leu
50     55     60
Arg Arg Ser Pro Tyr Leu Trp Arg Arg Ala Leu Gly Gly Ala Ala Gly
65     70     75     80
Pro Leu Val Gly Leu Pro Gly Gln Met Ala Arg Ser Ala Leu Leu Leu
85     90     95
Pro Ser Pro Gly Gln Glu Leu Trp Glu Val Arg Ser Arg Ser Ser Pro
100    105    110
Ala Gly Leu Pro Val His Ala Thr Arg Ser Leu Arg Asp Leu Glu Gly
115    120    125
Ala Gly Gln Pro Glu Gln Ser Leu Ser Phe Gln Ser Trp Thr Ser Ala
130    135    140
Glu Pro Ala Ala Arg Ala Phe Gly Glu Thr Leu Arg Ala Gln Pro Trp
145    150    155    160
Phe Leu Gln Gln Ile Phe Ala Asp Pro Val Arg Leu Asp Asp Arg
165    170    175
Leu Lys Asn Arg Trp Arg Pro Arg Ala
180    185

```

&lt;210&gt; 73

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Rattus norvegicus

&lt;400&gt; 73

```

Trp Tyr Lys His Val Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala
1      5      10      15
Ser Gly Leu Leu Met Gly Leu
20

```

&lt;210&gt; 74

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Rattus norvegicus

&lt;400&gt; 74

```

Trp Tyr Lys His Val Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala
1      5      10      15
Ser Gly Leu Leu Met Gly Leu Arg Arg Ser Pro Tyr Leu Trp

```

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20

25

30

<210> 75  
 <211> 69  
 <212> DNA  
 <213> Rattus norvegicus

<400> 75  
 tggtagaagc acgtggcgag ccctcgctat cacacagtgg gtcgtgcctc cgggctgctc 60  
 atggggctg 69

<210> 76  
 <211> 90  
 <212> DNA  
 <213> Rattus norvegicus

<400> 76  
 tggtagaagc acgtggcgag ccctcgctat cacacagtgg gtcgtgcctc cgggctgctc 60  
 atggggctgc gccgctcgcc ctacctgtgg 90

<210> 77  
 <211> 23  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Probe

<400> 77  
 ttcattctca acctggccat cgc 23

<210> 78  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 78  
 acccagttct tgcctaacc ctcc 24

<210> 79  
 <211> 24  
 <212> DNA  
 <213> Artificial Sequence

<220>  
 <223> Primer

<400> 79  
 cctgcttcgt acctcccaca gctc 24

<210> 80  
 <211> 311  
 <212> DNA  
 <213> Mus musculus

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<400> 80  
aaggggcaat tgacgtgagc gcgctggcgt ctaacagaga agtacggggc cctgggcccg 60  
ggactcccag gaaccggccc ctgctgcccc tgetgctgct tctgctcttg ctaccgctgc 120  
ccgccagcgc ctggtataag cacgtggcga gtccccgcta tcacacagtg ggtcgtgcct 180  
ccgggctgct catggggctg cgccgctcgc cctaccagtg gcgccgtgcc ctgggcgggg 240  
ctgctggacc cctctcccgg ctcccaggac cggtcgcccg cggcgctctc ctgcttcctt 300  
cctcagggca g 311

<210> 81  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Primer

<400> 81  
catgagcagc ccggaggcac gacc 24

<210> 82  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Primer

<400> 82  
gtgatagcgg ggactcgcca cgtg 24

<210> 83  
<211> 237  
<212> DNA  
<213> Mus musculus

<400> 83  
aaaggctgta gtgcaccaa ctgactggtc tccatcctct ggagctccga cgtgctcgtt 60  
ctcggagaca taaaccagc tcttgctcta accctccaag gggcaattga cgtgagcgcg 120  
ctggcgtcta acagagaagt acggggccct gggcccggga ctcccaggaa ccggcccctg 180  
ctgcccctgc tgctgcttct gctcttgcta ccgctgcccg ccagcgcttg gtataag 237

<210> 84  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Primer

<400> 84  
accagttct tgtcctaacc ctcc 24

<210> 85  
<211> 24  
<212> DNA  
<213> Artificial Sequence

<220>

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&lt;223&gt; Primer

&lt;400&gt; 85

gggcaattga cgtgagcgcg ctgg 24

&lt;210&gt; 86

&lt;211&gt; 598

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 86

cgtctaacag	agaagtacgg	ggccctgggc	ccgggactcc	caggaaccgg	cccctgctgc	60
ccctgctgct	gcttctgctc	ttgctaccgc	tgcccgccag	cgcttggtat	aagcacgtgg	120
cgagtccccg	ctatcacaca	gtgggtcgtg	cctccgggct	gctcatgggg	ctgcgccgct	180
cgccctacca	gtggcgccgt	gccctgggcg	gggctgctgg	acccctctcc	cggtctccag	240
gaccggctcg	ccgcggcgct	ctcctgcttc	cttcctcagg	gcaggagctg	tgggaggtac	300
gaagcaggag	ctcacctgca	gggcttcccg	tccatgcacc	ctggagtccg	cgggacctgg	360
agggagtccg	ccaaccggag	cagtcgctaa	gccttcactc	ctggatctca	gaggagcccc	420
ctgctagagc	cttcggagag	acgcttcgtg	cccagccatg	gttcctgcag	caagtcattc	480
ttgccgatcc	tgtcaggccc	aagaaccgat	ggcgcccca	tgtttgacct	aggcaggagc	540
acagcttgaa	gctccagtca	ggcctcgtgt	ttctgggtcaa	taaaaccaac	ctgattcc	598

&lt;210&gt; 87

&lt;211&gt; 21

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 87

aaaggctgta gtcgcaccaa c 21

&lt;210&gt; 88

&lt;211&gt; 21

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 88

accagaaaca cgaggcctga c 21

&lt;210&gt; 89

&lt;211&gt; 659

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 89

tgactggtct	ccatcctctg	gagctccgac	gtgctcgttc	tggagacat	aaaccagtt	60
cttgctctaa	ccctccaagg	ggcaattgac	gtgagcgcg	tggcgtctaa	cagagaagta	120
cggggccctg	ggcccgggac	tcccaggaac	cggcccctgc	tgcccctgct	gctgcttctg	180
ctcttgctac	cgctgcccg	cagcgccctg	tataagcacg	tggcgagtcc	ccgctatcac	240
acagtgggtc	gtgcctccgg	gctgctcatg	gggctgcgcc	gctcgcccta	ccagtggcgc	300
cgtgccctgg	gcggggctgc	tggacccctc	tcccggctcc	caggaccggg	cgcccgcggc	360
gctctcctgc	ttccttcttc	agggcaggag	ctgtgggagg	tacgaagcag	gagctcacct	420
gcagggcttc	ccgtccatgc	accctggagt	ccgcgggacc	tggagggagt	ccgccaaccg	480

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gagcagtcgc taagccttca ctcttgatc tcagaggagc ccgctgctag agccttcgga 540
gagacgcttc gtgcccagcc atggttcctg cagcaagtca tctttgccga tcctgtcagg 600
cccaagaacc gatggcgccc ccatgcttga ctaggcagg agcacagctt gaagctcca 659

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<210> 90  
 <211> 176  
 <212> PRT  
 <213> Mus musculus

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<400> 90
Leu Ala Ser Asn Arg Glu Val Arg Gly Pro Gly Pro Gly Thr Pro Arg
1          5          10          15
Asn Arg Pro Leu Leu Pro Leu Leu Leu Leu Leu Leu Leu Leu Pro Leu
20          25          30
Pro Ala Ser Ala Trp Tyr Lys His Val Ala Ser Pro Arg Tyr His Thr
35          40          45
Val Gly Arg Ala Ser Gly Leu Leu Met Gly Leu Arg Arg Ser Pro Tyr
50          55          60
Gln Trp Arg Arg Ala Leu Gly Gly Ala Ala Gly Pro Leu Ser Arg Leu
65          70          75          80
Pro Gly Pro Val Ala Arg Gly Ala Leu Leu Leu Pro Ser Ser Gly Gln
85          90          95
Glu Leu Trp Glu Val Arg Ser Arg Ser Ser Pro Ala Gly Leu Pro Val
100         105         110
His Ala Pro Trp Ser Pro Arg Asp Leu Glu Gly Val Arg Gln Pro Glu
115         120         125
Gln Ser Leu Ser Leu His Ser Trp Ile Ser Glu Glu Pro Ala Ala Arg
130         135         140
Ala Phe Gly Glu Thr Leu Arg Ala Gln Pro Trp Phe Leu Gln Gln Val
145         150         155         160
Ile Phe Ala Asp Pro Val Arg Pro Lys Asn Arg Trp Arg Pro His Ala
165         170         175

```

<210> 91  
 <211> 23  
 <212> PRT  
 <213> Mus musculus

```

<400> 91
Trp Tyr Lys His Val Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala
1          5          10          15
Ser Gly Leu Leu Met Gly Leu
20

```

<210> 92  
 <211> 30  
 <212> PRT  
 <213> Mus musculus

```

<400> 92
Trp Tyr Lys His Val Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala
1          5          10          15
Ser Gly Leu Leu Met Gly Leu Arg Arg Ser Pro Tyr Gln Trp
20          25          30

```

<210> 93  
 <211> 69  
 <212> DNA

- 23 / 36 -

<213> Mus musculus

<400> 93

tggtataagc acgtggcgag tccccgctat cacacagtgg gtcgtgcttc cgggctgctc 60  
atggggctg 69

<210> 94

<211> 90

<212> DNA

<213> Mus musculus,

<400> 94

tggtataagc acgtggcgag tccccgctat cacacagtgg gtcgtgcttc cgggctgctc 60  
atggggctgc gccgctcgcc ctaccagtgg 90

<210> 95

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<221> Human GPR8 ligand (1-23) oxidant

<222> 21

<223> Xaa is Met(O)

<400> 95

Trp Tyr Lys His Val Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala  
1 5 10 15  
Ala Gly Leu Leu Xaa Gly Leu  
20

<210> 96

<211> 22

<212> PRT

<213> Homo sapiens

<400> 96

Trp Tyr Lys His Val Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala  
1 5 10 15  
Ala Gly Leu Leu Met Gly  
20

<210> 97

<211> 21

<212> PRT

<213> Homo sapiens

<400> 97

Trp Tyr Lys His Val Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala  
1 5 10 15  
Ala Gly Leu Leu Met  
20

<210> 98

<211> 20

<212> PRT

<213> Homo sapiens

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<400> 98

Trp Tyr Lys His Val Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala  
 1 5 10 15  
 Ala Gly Leu Leu  
 20

<210> 99

<211> 19

<212> PRT

<213> Homo sapiens

<400> 99

Trp Tyr Lys His Val Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala  
 1 5 10 15  
 Ala Gly Leu

<210> 100

<211> 18

<212> PRT

<213> Homo sapiens

<400> 100

Trp Tyr Lys His Val Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala  
 1 5 10 15  
 Ala Gly

<210> 101

<211> 17

<212> PRT

<213> Homo sapiens

<400> 101

Trp Tyr Lys His Val Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala  
 1 5 10 15  
 Ala

<210> 102

<211> 16

<212> PRT

<213> Homo sapiens

<400> 102

Trp Tyr Lys His Val Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala  
 1 5 10 15

<210> 103

<211> 23

<212> PRT

<213> Artificial Sequence

<220>

<221> Porcine GPR8 ligand (1-23) oxidant

<222> 21

<223> Xaa is Met(O)

<400> 103

Trp Tyr Lys His Thr Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala  
 1 5 10 15



- 25 / 36 -

Ala Gly Leu Leu Xaa Gly Leu  
20

<210> 104  
<211> 23  
<212> PRT  
<213> Artificial Sequence

<220>  
<221> Rat/mouse GPR8 ligand (1-23) oxidant  
<222> 21  
<223> Xaa is Met(O)

<400> 104  
Trp Tyr Lys His Val Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala  
1 5 10 15  
Ser Gly Leu Leu Xaa Gly Leu  
20

<210> 105  
<211> 23  
<212> PRT  
<213> Artificial Sequence

<220>  
<221> Fmoc-added human GPR8L (1-23)  
<222> 1  
<223> Xaa is Fmoc-Trp

<400> 105  
Xaa Tyr Lys His Val Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala  
1 5 10 15  
Ala Gly Leu Leu Met Gly Leu  
20

<210> 106  
<211> 23  
<212> PRT  
<213> Artificial Sequence

<220>  
<221> [N $\alpha$ -Acetyl-Trp1]-human GPR8 ligand (1-23)  
<222> 1  
<223> Xaa is Ac-Trp

<400> 106  
Xaa Tyr Lys His Val Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala  
1 5 10 15  
Ala Gly Leu Leu Met Gly Leu  
20

<210> 107  
<211> 22  
<212> PRT  
<213> Homo sapiens

<400> 107  
Tyr Lys His Val Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala Ala

- 26 / 36 -

1                    5                    10                    15  
Gly Leu Leu Met Gly Leu  
                  20

<210> 108  
<211> 20  
<212> PRT  
<213> Homo sapiens

<400> 108  
His Val Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala Ala Gly Leu  
1                    5                    10                    15  
Leu Met Gly Leu  
                  20

<210> 109  
<211> 15  
<212> PRT  
<213> Homo sapiens

<400> 109  
Arg Tyr His Thr Val Gly Arg Ala Ala Gly Leu Leu Met Gly Leu  
1                    5                    10                    15

<210> 110  
<211> 9  
<212> PRT  
<213> Homo sapiens

<400> 110  
Arg Ala Ala Gly Leu Leu Met Gly Leu  
1                    5

<210> 111  
<211> 22  
<212> PRT  
<213> Artificial Sequence

<220>  
<221> [N-Acetyl-Tyr2]-human GPR8 ligand (2-23)  
<222> 1  
<223> Xaa is Ac-Tyr

<400> 111  
Xaa Lys His Val Ala Ser Pro Arg Tyr His Thr Val Gly Arg Ala Ala  
1                    5                    10                    15  
Gly Leu Leu Met Gly Leu  
                  20

<210> 112  
<211> 23  
<212> PRT  
<213> Artificial Sequence

<220>  
<221> [D-Trp1]-human GPR8 ligand (1-23)  
<222> 1  
<223> Xaa is D-Trp

<210> 118

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<211> 54  
<212> DNA  
<213> Homo sapiens

<400> 118  
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<210> 119  
<211> 51  
<212> DNA  
<213> Homo sapiens

<400> 119  
tggtacaagc acgtggcgag tccccgctac cacacggtgg gccgcgccgc t 51

<210> 120  
<211> 48  
<212> DNA  
<213> Homo sapiens

<400> 120  
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<210> 121  
<211> 66  
<212> DNA  
<213> Homo sapiens

<400> 121  
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gggctg 66

<210> 122  
<211> 60  
<212> DNA  
<213> Homo sapiens

<400> 122  
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<210> 123  
<211> 45  
<212> DNA  
<213> Homo sapiens

<400> 123  
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<210> 124  
<211> 27  
<212> DNA  
<213> Homo sapiens

<400> 124  
cgccgcgctg gcctgctcat ggggctg 27

<210> 125  
<211> 51

- 29 / 36 -

<212> DNA  
 <213> *Sus scrofa*

<400> 125  
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51

<210> 126  
 <211> 329  
 <212> PRT  
 <213> *Rattus norvegicus*

<400> 126  
 Met His Asn Leu Ser Leu Phe Glu Pro Gly Arg Gly Asn Val Ser Cys  
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 Gly Gly Pro Phe Leu Gly Cys Pro Asn Glu Ser Asn Pro Ala Pro Leu  
                                   20                                  25                                  30  
 Pro Leu Pro Gln Pro Leu Ala Val Ala Val Pro Val Val Tyr Gly Val  
                                   35                                  40                                  45  
 Ile Cys Ala Val Gly Leu Ala Gly Asn Ser Ala Val Leu Tyr Val Leu  
                                   50                                  55                                  60  
 Leu Arg Thr Pro Arg Met Lys Thr Val Thr Asn Val Phe Ile Leu Asn  
                                   65                                  70                                  75                                  80  
 Leu Ala Ile Ala Asp Glu Leu Phe Thr Leu Val Leu Pro Ile Asn Ile  
                                   85                                  90                                  95  
 Ala Asp Phe Leu Leu Arg Arg Trp Pro Phe Gly Glu Val Met Cys Lys  
                                   100                                  105                                  110  
 Leu Ile Val Ala Val Asp Gln Tyr Asn Thr Phe Ser Ser Leu Tyr Phe  
                                   115                                  120                                  125  
 Leu Ala Val Met Ser Ala Asp Arg Tyr Leu Val Val Leu Ala Thr Ala  
                                   130                                  135                                  140  
 Glu Ser Arg Arg Val Ser Gly Arg Thr Tyr Gly Ala Ala Arg Ala Val  
                                   145                                  150                                  155                                  160  
 Ser Leu Ala Val Trp Ala Leu Val Thr Leu Val Val Leu Pro Phe Ala  
                                   165                                  170                                  175  
 Val Phe Ala Arg Leu Asp Glu Glu Gln Gly Arg Arg Gln Cys Val Leu  
                                   180                                  185                                  190  
 Val Phe Pro Gln Pro Glu Ala Phe Trp Trp Arg Ala Ser Arg Leu Tyr  
                                   195                                  200                                  205  
 Thr Leu Val Leu Gly Phe Ala Ile Pro Val Ser Thr Ile Cys Ala Leu  
                                   210                                  215                                  220  
 Tyr Ile Thr Leu Leu Cys Arg Leu Arg Ala Ile Gln Leu Asp Ser His  
                                   225                                  230                                  235                                  240  
 Ala Lys Ala Leu Asp Arg Ala Lys Lys Arg Val Thr Leu Leu Val Val  
                                   245                                  250                                  255  
 Ala Ile Leu Ala Val Cys Leu Leu Cys Trp Thr Pro Tyr His Leu Ser  
                                   260                                  265                                  270  
 Thr Ile Val Ala Leu Thr Thr Asp Leu Pro Gln Thr Pro Leu Val Ile  
                                   275                                  280                                  285  
 Gly Ile Ser Tyr Phe Ile Thr Ser Leu Ser Tyr Ala Asn Ser Cys Leu  
                                   290                                  295                                  300  
 Asn Pro Phe Leu Tyr Ala Phe Leu Asp Asp Ser Phe Arg Arg Ser Leu  
                                   305                                  310                                  315                                  320  
 Arg Gln Leu Val Ser Cys Arg Thr Ala  
                                   325

<210> 127  
 <211> 987  
 <212> DNA

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<213> *Rattus norvegicus*

&lt;400&gt; 127

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&lt;210&gt; 128

&lt;211&gt; 28

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 128

```

actgatatgc acaacttgct gctcttcg 28

```

&lt;210&gt; 129

&lt;211&gt; 28

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 129

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actagttcag gctgtgcggc atgacacc 28

```

&lt;210&gt; 130

&lt;211&gt; 19

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 130

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gttggtggtg gcgattctg 19

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&lt;210&gt; 131

&lt;211&gt; 19

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

- 31 / 36 -

<220>

<223> Primer

<400> 131

tggtgagcgc cactatggt 19

<210> 132

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 132

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<210> 133

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 133

gaagagctca tcggcgatag ccag 24

<210> 134

<211> 440

<212> DNA

<213> Mus musculus

<400> 134

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cgcggggctg	ctgagtggaa	tcctgggtgg	cgctgtctct	ccagccctct	ccaagatgca	180
taacttaacg	cttttcgagt	ctggagggga	caacgtgtct	tgcggcggct	catctttggg	240
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<210> 135

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Primer

<400> 135

tttcgcgggg ctgctgagtg gaat 24

<210> 136

<211> 24

<212> DNA

- 32 / 36 -

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 136

agtgtctgcct gcggtggaaa gagg 24

&lt;210&gt; 137

&lt;211&gt; 1083

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 137

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gcaattgggtg tcatgccgtt cagcctgatg ccctttccac ctctttccac cgcaggcagc 1080
act 1083

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&lt;210&gt; 138

&lt;211&gt; 329

&lt;212&gt; PRT

&lt;213&gt; Mus musculus

&lt;400&gt; 138

```

Met His Asn Leu Thr Leu Phe Glu Ser Gly Gly Asp Asn Val Ser Cys
      5              10              15
Gly Gly Ser Ser Leu Gly Cys Pro Asn Gly Ser Ser Leu Ala Pro Leu
      20              25              30
Pro Leu Pro Gln Pro Leu Ala Val Ala Val Pro Val Val Tyr Gly Val
      35              40              45
Ile Cys Ala Val Gly Leu Ala Gly Asn Ser Ala Val Leu Tyr Val Leu
      50              55              60
Leu Arg Thr Pro Arg Met Lys Thr Val Thr Asn Val Phe Ile Leu Asn
      65              70              75              80
Leu Ala Ile Ala Asp Glu Leu Phe Thr Leu Val Leu Pro Ile Asn Ile
      85              90              95
Ala Asp Phe Leu Leu Arg Arg Trp Pro Phe Gly Glu Val Met Cys Lys
      100             105             110
Leu Ile Val Ala Val Asp Gln Tyr Asn Thr Phe Ser Ser Leu Tyr Phe
      115             120             125
Leu Ala Val Met Ser Ala Asp Arg Tyr Leu Val Val Leu Ala Thr Ala
      130             135             140

```



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Glu Ser Arg Arg Val Ser Gly Arg Thr Tyr Gly Ala Ala Arg Ala Val  
 145 150 155 160  
 Ser Leu Ala Val Trp Ala Leu Val Thr Leu Val Val Leu Pro Phe Ala  
 165 170 175  
 Val Phe Ala Arg Leu Asp Glu Glu Gln Gly Arg Arg Gln Cys Val Leu  
 180 185 190  
 Val Phe Pro Gln Pro Glu Ala Phe Trp Trp Arg Ala Ser Arg Leu Tyr  
 195 200 205  
 Thr Leu Val Leu Gly Phe Ala Ile Pro Val Thr Thr Ile Cys Ala Leu  
 210 215 220  
 Tyr Thr Thr Leu Leu Cys Arg Leu Arg Ala Ile Gln Leu Asp Ser His  
 225 230 235 240  
 Ala Lys Ala Leu Asp Arg Ala Lys Lys Arg Val Thr Leu Leu Val Ala  
 245 250 255  
 Ala Ile Leu Ala Val Cys Leu Leu Cys Trp Thr Pro Tyr His Leu Ser  
 260 265 270  
 Thr Ile Val Ala Leu Thr Thr Asp Leu Pro Gln Thr Pro Leu Val Ile  
 275 280 285  
 Gly Ile Ser Tyr Phe Ile Thr Ser Leu Ser Tyr Ala Asn Ser Cys Leu  
 290 295 300  
 Asn Pro Phe Leu Tyr Ala Phe Leu Asp Asp Ser Phe Arg Arg Ser Leu  
 305 310 315 320  
 Arg Gln Leu Val Ser Cys Arg Ser Ala  
 325

&lt;210&gt; 139

&lt;211&gt; 987

&lt;212&gt; DNA

&lt;213&gt; Mus musculus

&lt;400&gt; 139

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tggtggcgtg	ccagccgtct	ctacacacta	gtattgggct	ttgccatccc	ggtgaccacc	660
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aacagctgcc	tcaacccttt	cctctatgcc	ttcctggacg	acagcttccg	cagaagcctc	960
cggcaattgg	tgtcatgccg	ttcagcc				987

&lt;210&gt; 140

&lt;211&gt; 27

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Probe

&lt;400&gt; 140

- 34 / 36 -

tcctctgctg gacaccgtac cacctga 27

&lt;210&gt; 141

&lt;211&gt; 32

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 141

atcgatatgg acaacgcctc gttctcggag cc 32

&lt;210&gt; 142

&lt;211&gt; 32

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 142

actagtgtca ggctgccgcg cggcaagtta tc 32

&lt;210&gt; 143

&lt;211&gt; 1000

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 143

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ctcccgcaga	cgcgctgggt	catcgctatc	tcctacttca	tcaccagcct	gagctacgcc	900
aacagctgcc	tcaaccctt	cctctacgcc	ttcctggacg	ccagcttccg	caggaaacctc	960
cgccagctga	taacttgccg	cgcggcagcc	tgacactagt			1000

&lt;210&gt; 144

&lt;211&gt; 328

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 144

Met	Asp	Asn	Ala	Ser	Phe	Ser	Glu	Pro	Trp	Pro	Ala	Asn	Ala	Ser	Gly
1				5					10					15	
Pro	Asp	Pro	Ala	Leu	Ser	Cys	Ser	Asn	Ala	Ser	Thr	Leu	Ala	Pro	Leu
			20					25					30		

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Pro Ala Pro Leu Ala Val Ala Val Pro Val Val Tyr Ala Val Ile Cys
    35              40              45
Ala Val Gly Leu Ala Gly Asn Ser Ala Val Leu Tyr Val Leu Leu Arg
    50              55              60
Ala Pro Arg Met Lys Thr Val Thr Asn Leu Phe Ile Leu Asn Leu Ala
65              70              75              80
Ile Ala Asp Glu Leu Phe Thr Leu Val Leu Pro Ile Asn Ile Ala Asp
    85              90              95
Phe Leu Leu Arg Gln Trp Pro Phe Gly Glu Leu Met Cys Lys Leu Ile
    100             105             110
Val Ala Ile Asp Gln Tyr Asn Thr Phe Ser Ser Leu Tyr Phe Leu Thr
    115             120             125
Val Met Ser Ala Asp Arg Tyr Leu Val Val Leu Ala Thr Ala Glu Ser
    130             135             140
Arg Arg Val Ala Gly Arg Thr Tyr Ser Ala Ala Arg Ala Val Ser Leu
145             150             155             160
Ala Val Trp Gly Ile Val Thr Leu Val Val Leu Pro Phe Ala Val Phe
    165             170             175
Ala Arg Leu Asp Asp Glu Gln Gly Arg Arg Gln Cys Val Leu Val Phe
    180             185             190
Pro Gln Pro Glu Ala Phe Trp Trp Arg Ala Ser Arg Leu Tyr Thr Leu
    195             200             205
Val Leu Gly Phe Ala Ile Pro Val Ser Thr Ile Cys Val Leu Tyr Thr
    210             215             220
Thr Leu Leu Cys Arg Leu His Ala Met Arg Leu Asp Ser His Ala Lys
225             230             235             240
Ala Leu Glu Arg Ala Lys Lys Arg Val Thr Phe Leu Val Val Ala Ile
    245             250             255
Leu Ala Val Cys Leu Leu Cys Trp Thr Pro Tyr His Leu Ser Thr Val
    260             265             270
Val Ala Leu Thr Thr Asp Leu Pro Gln Thr Pro Leu Val Ile Ala Ile
    275             280             285
Ser Tyr Phe Ile Thr Ser Leu Ser Tyr Ala Asn Ser Cys Leu Asn Pro
    290             295             300
Phe Leu Tyr Ala Phe Leu Asp Ala Ser Phe Arg Arg Asn Leu Arg Gln
305             310             315             320
Leu Ile Thr Cys Arg Ala Ala Ala
    325

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&lt;210&gt; 145

&lt;211&gt; 32

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

&lt;400&gt; 145

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&lt;210&gt; 146

&lt;211&gt; 21

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Primer

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<400> 146  
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<210> 147  
<211> 21  
<212> DNA  
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<220>  
<223> Primer

<400> 147  
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<210> 148  
<211> 19  
<212> DNA  
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<220>  
<223> Primer

<400> 148  
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<210> 149  
<211> 20  
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<223> [Phe2] human GPR8 ligand (1-20)

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Ala Gly Leu Leu  
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